

AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

LISTING OF CLAIMS:

1. (Currently Amended) A cutting tool comprising:
a body of sintered cemented carbide, cermet or ceramic; and
a hard and wear resistant coating applied on at least a functioning portion of a surface of the body, wherein said coating comprises a structure of one or more refractory layers of which at least one layer consists essentially of an equiaxed fine grained κ -Al₂O₃ with a thickness of 0.5-25 μ m and with a grain size of less than 0.5 μ m, and said fine grained κ -Al₂O₃ layer comprises at least one sublayer with a thickness between 0.02 and 3 μ m containing Al, Si and O with a Si concentration between 4-34 at%, Al concentration of 0-37 greater than 0 to 37 at% and O concentration of 60-67 at%.
2. (Original) The cutting tool according to claim 1, wherein the fine grained κ -Al₂O₃ is in contact with a TiC_xN_yO_z layer.
3. (Original) The cutting tool according to claim 1, wherein the fine grained κ -Al₂O₃ is in contact with an α -Al₂O₃ layer.
4. (Original) The cutting tool according to claim 1, wherein the fine grained κ -Al₂O₃ layer has 1-200 sublayers containing Al, Si and O.

Claim 5 (Canceled)

6. (Original) The cutting tool according to claim 4, wherein the fine grained κ -Al₂O₃ layer has less than 100 sublayers.

Claims 7-10 (Canceled)

11. (New) The cutting tool according to claim 1, wherein the Si concentration is about 8 at%.

12. (New) The cutting tool according to claim 1, wherein the O concentration is about 60 at%.

13. (New) The cutting tool according to claim 1, wherein the Al concentration is about 32 at%.

14. (New) The cutting tool according to claim 13, wherein the fine grained κ -Al₂O₃ is in contact with a TiC_xN_yO_z layer.

15. (New) The cutting tool according to claim 13, wherein the fine grained κ -Al₂O₃ is in contact with an α -Al₂O₃ layer.

16. (New) The cutting tool according to claim 13, wherein the fine grained κ -Al₂O₃ layer has 1-200 sublayers containing Al, Si and O.

17. (New) The cutting tool according to claim 16, wherein the fine grained κ -Al₂O₃ layer has less than 100 sublayers.

18. (New) A cutting tool comprising:

a body of sintered cemented carbide, cermet or ceramic; and

a hard and wear resistant coating applied on at least a functioning portion of a surface of the body,

wherein said coating comprises a structure of one or more refractory layers of which at least one layer consists essentially of an equiaxed fine grained κ -Al₂O₃ with a thickness of 0.5-25 μ m and with a grain size of less than 0.5 μ m, and said fine grained κ -Al₂O₃ layer comprises 1-200 sublayers containing Al, Si and O and at least one sublayer has a thickness between 0.02 and 3 μ m containing Al, Si and O with a Si concentration about 8 at%, Al concentration of about 32 at% and O concentration of about 60 at%, and

wherein the fine grained κ -Al₂O₃ is in contact with a TiC_xN_yO_z layer or in contact with an α -Al₂O₃ layer.

19. (New) The cutting tool according to claim 18, wherein the fine grained κ -Al₂O₃ layer has less than 100 sublayers.